



SIGNUM Bag Sealer

Ver 1.0

Operators Manual



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1 Overview

This manual covers the general operator controls for the day to day running of the Bag Sealer

The Sychem Bag Sealer is designed to offer a simple solution for dealing with waste, in particular, from Dump stations.

With proper installation, set-up and maintenance the SIGNUM Bag Sealer will give efficient and trouble free operation. This manual will familiarize operators with detailed information about installing and operating the Device.

1.1 Packing list

Your new SIGNUM Bag Sealer will be supplied with the following parts;

Bag Sealer Unit

Power Cord

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One Bag roll cassette (maybe fitted)

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1.2 Manual Issue Status

Issue	Notes	Date
1	First Draft	April 2014

1.3 Product Code and Manufacturer details

Product Code	SIGNUM
Version	1.0

1.4 Electrical Supply

Voltage	100 to 240V AC
Phases	1 phase
Frequency	50/60 Hz
Current Rating	8A(100V) to 4A(240V) Typical running current is 2.3A during seal and 0.2A at rest

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1.5 CE Certificate

EC DECLARATION OF CONFORMITY

Name and Address of the manufacturer:	Sychem Ltd Highcove House Chandlers Ford Ind Est Hampshire SO53 4BU UK
Description of Equipment:	Seal and cut bag sealer
Model / Type:	SIGNUM Ver1.0
Serial No.'s:	14-04-0001 to 14-04-0006
Directives / Conformity Assessment Procedures:	The Machinery Directive (2006/42/EC) / Non Annex IV Machinery, Self declaration/Technical file The Electromagnetic Compatibility Directive (2004/108/EC) The Low Voltage Directive (2006/95/EC)
Technical standards and specifications:	BS EN ISO 13849-1:2006 Safety of machinery — Safety-related parts of control systems. BS EN ISO 60204-1:2006 Safety of machinery — Electrical equipment of machines.
Declaration:	The person signing below declares that the above named equipment fulfils all the relevant provisions of the stated directives.
Place of Declaration & Date:	Sychem Limited , SO53 4BU, UK 02/04/2014
Signed:	 _____
Printed Name of Authorised Signatory:	Mr M. Barnes
Position in Company:	Managing Director

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1.6 Receiving and inspection

Although every precaution is taken when packing and shipping, please carefully check goods on receipt, ensuring all parts listed on the packing note are accounted for. Report any damage or shortages to the delivery company and Sychem Ltd as soon as possible.

1.7 Storage

If the equipment is to be stored prior to installation, place in a clean dry location ensuring it is not exposed to extreme temperature or humidity, ideally in original packaging to prevent contaminants entering the system.

1.8 Disposal



- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment. The equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organization of collection activities and the use of appropriate planning arrangements.
- Unauthorized disposal of waste electrical and electronic equipments is punishable by law with the appropriate penalties.

1.9 Health and Safety

1.9.1 Personal protection equipment

In the interest of Health and Safety, it is essential to review your application and issue Operators with appropriate personal protection equipment for using the bag sealer. This also applies to the area within which the bag sealer is installed.

1.9.2 Warning labels

Various warning labels are fitted to the Bag Sealer and must be heeded. Special attention is required for the following;

On the electrical control cover:

Danger – 220V & Warning – Isolate elsewhere before removing this cover

The power must be removed from the unit, before removing the panel.

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1.10 Installation

The SIGNUM Bag Sealer is designed to be easily manoeuvred into the desired operating location, as required.

The Wheels on the Bag Sealer are fitted on extendable mountings that can be raised and lowered.

Castor standard mounting arrangement.
Below is the fully retracted position, and fully extended is shown on the right.



The picture on the left, is an example of the castor mounting arrangement with absolute minimum height. The locking nut is inside the mould.
To reduce the height to this minimum, First remove the mounting plate by removing the four M5 screws, then extract the plate and reposition the locking nut to the inside.

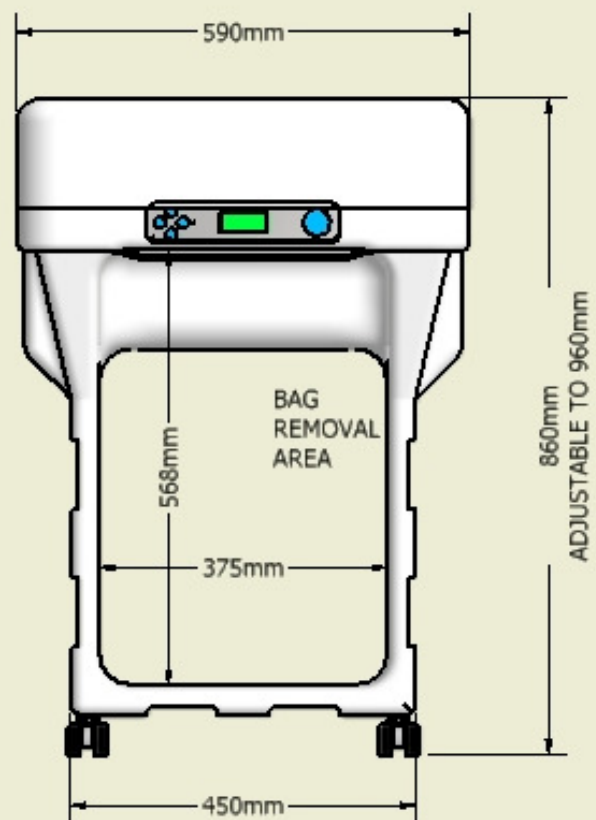
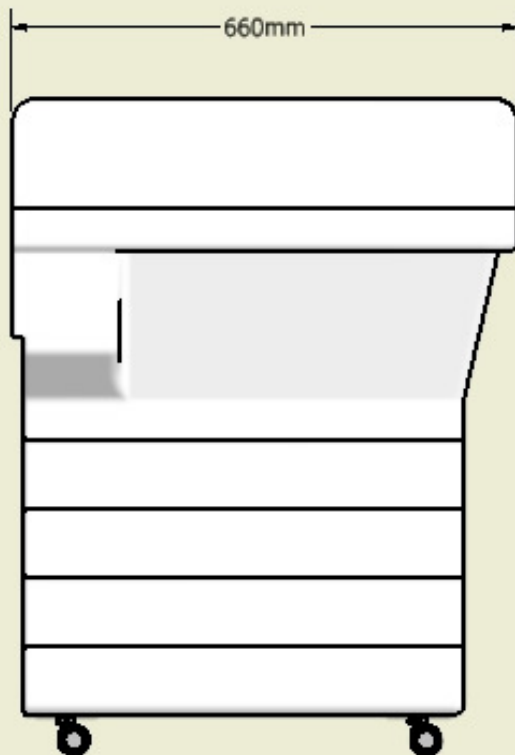
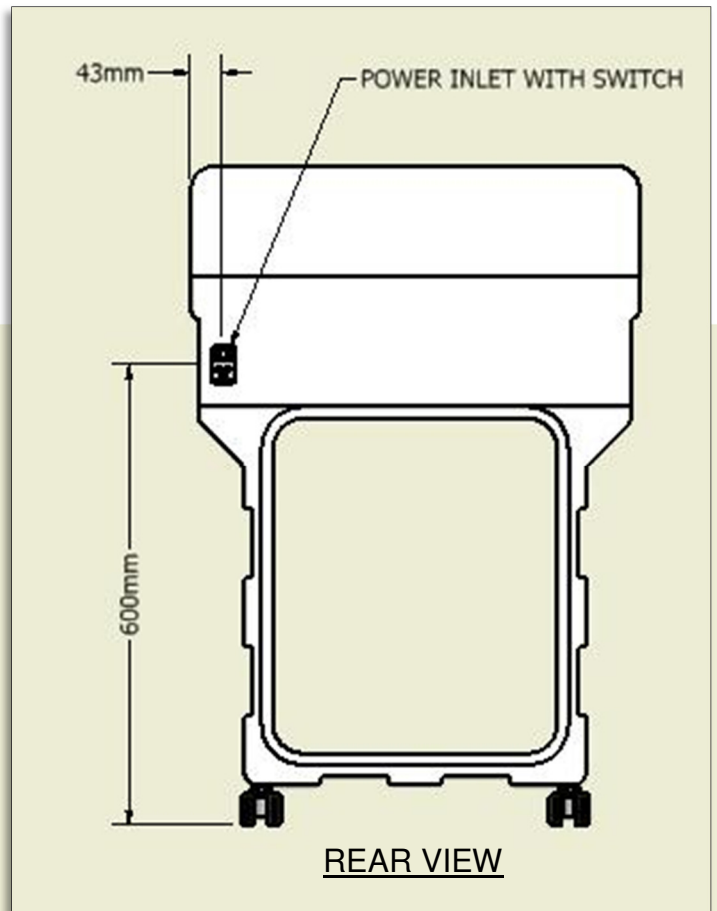
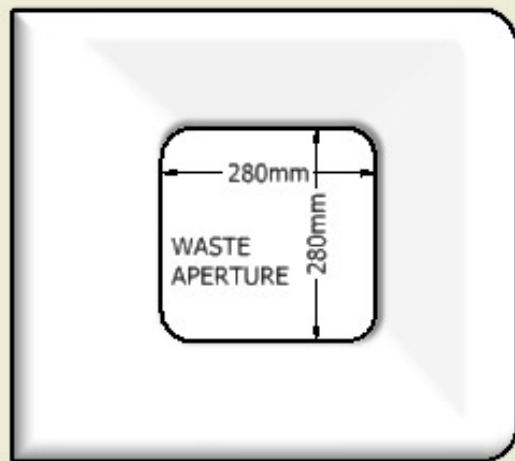
1.11 Dimensions

Height: 860mm (Minimum)
960mm (Maximum)
Width: 590mm
Depth: 660mm
Largest bag capacity: 70 Litres

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1.12 Overall dimensions



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2 Safety

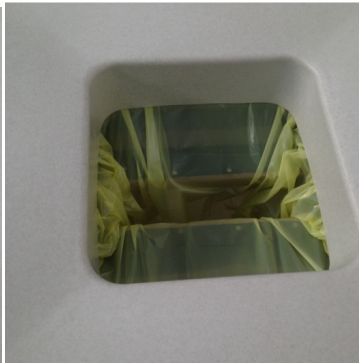
2.1 Sealing bar operation

Do not put your hand within the aperture of the bag sealer, as you may also cause the seal and cut operation to start.

The Heat bar motorized action has a pressure limiting function to prevent injury, but never put this to the test!



Sealing bars open



Sealing bars closing



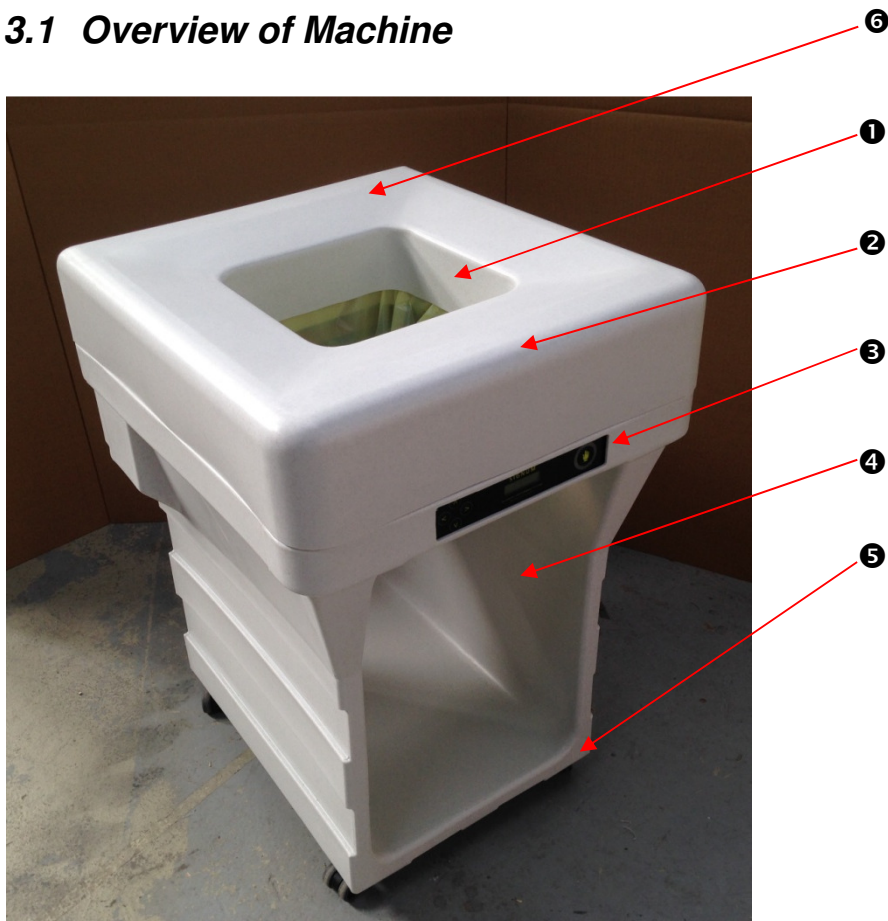
Sealing bars closed

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3 Operation

3.1 Overview of Machine



Key to identifiers

- ①** Waste aperture
- ②** Removable lid
- ③** Operator control
- ④** Bag collection area
- ⑤** Height adjustment and castors
- ⑥** Power inlet, with switch



Rear view of Power inlet + switch

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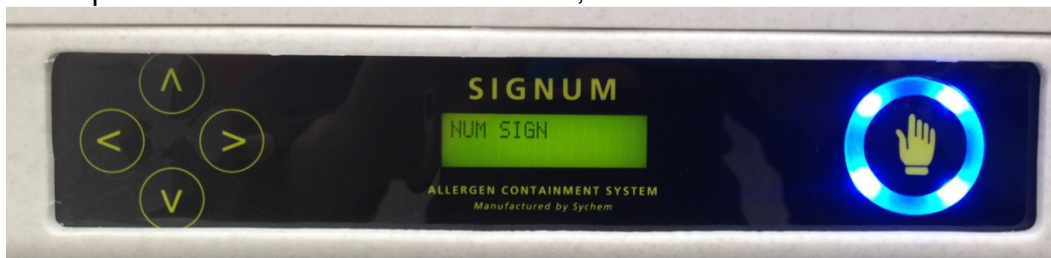
3.2 Operator Controls

The Operator control is mounted centrally above the Bag removal area.

The control consist of;

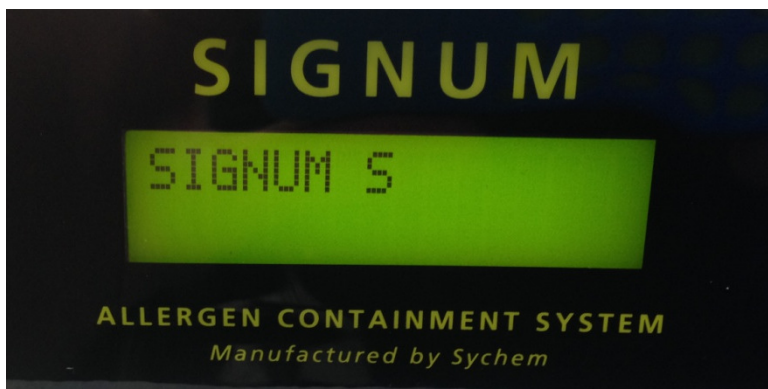
- A black membrane panel
- A one-touch control on the right, for starting the seal and cut operation
- A two line text display in the centre
- A four button control to access menu items, on the left

The Operator Control is illustrated below;



3.3 Startup

On applying power to the SIGNUM Bag Sealer, the text display backlight will come on and the software version will be displayed for 3 seconds. After 3 seconds, the SIGNUM name will scroll across from right to left. In addition, and One-touch control will illuminate blue.



Note that the sealing bar will motor to the fully open position, if the machine had been powered down with the bars closed, or semi-closed.

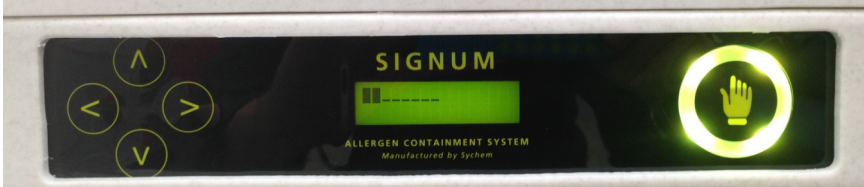
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3.4 Procedure for Filling Bags

Step	Description
1	With the SIGNUM bag sealer positioned under the dump station, or stand-alone, simply pour the waste through the aperture. The weight of the waste will pull the bag through.
2	Ensure the bag does not become over-full

3.5 Procedure for sealing the bag

Step	Description
1	When the bag is sufficiently full. Touch the one-touch control on the right of the control panel  The lights turn amber and the text display shows the progress bar graph. The seal and cut will complete and the sealing bars will return to open. Once complete, the lights will turn blue once more and the bag may be removed. The actions of the seal and cut operation are described below

Step	Text display	Seal and cut operation
1	■■■■■■■■	Closing
2	■■■■■■■■	Sealing (not heating)
3	■■■■■☒■■■	Sealing (heating)
4	■■■■■■■■■■	Cutting
5	■■■■■■■■■■	Opening
6	SIGNUM	Operation complete. SIGNUM scrolling across the display

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3.6 Procedure for changing the bag cassette

Step	Description
1	Switch the SIGNUM Bag sealer off. We recommend this, to prevent the Seal cycle from being started accidentally. Lift the lid off the SIGNUM bag sealer
2	 Carefully open the bag cassette box. DO NOT use a knife to open the box, use the pull tag supplied.
3	 Pick the bag 'ring' up with both arms, to allow for easy fitting on the machine.
4	 Slip the bag 'ring' over the former
5	 Ensure the bag 'ring' is fully located on the former

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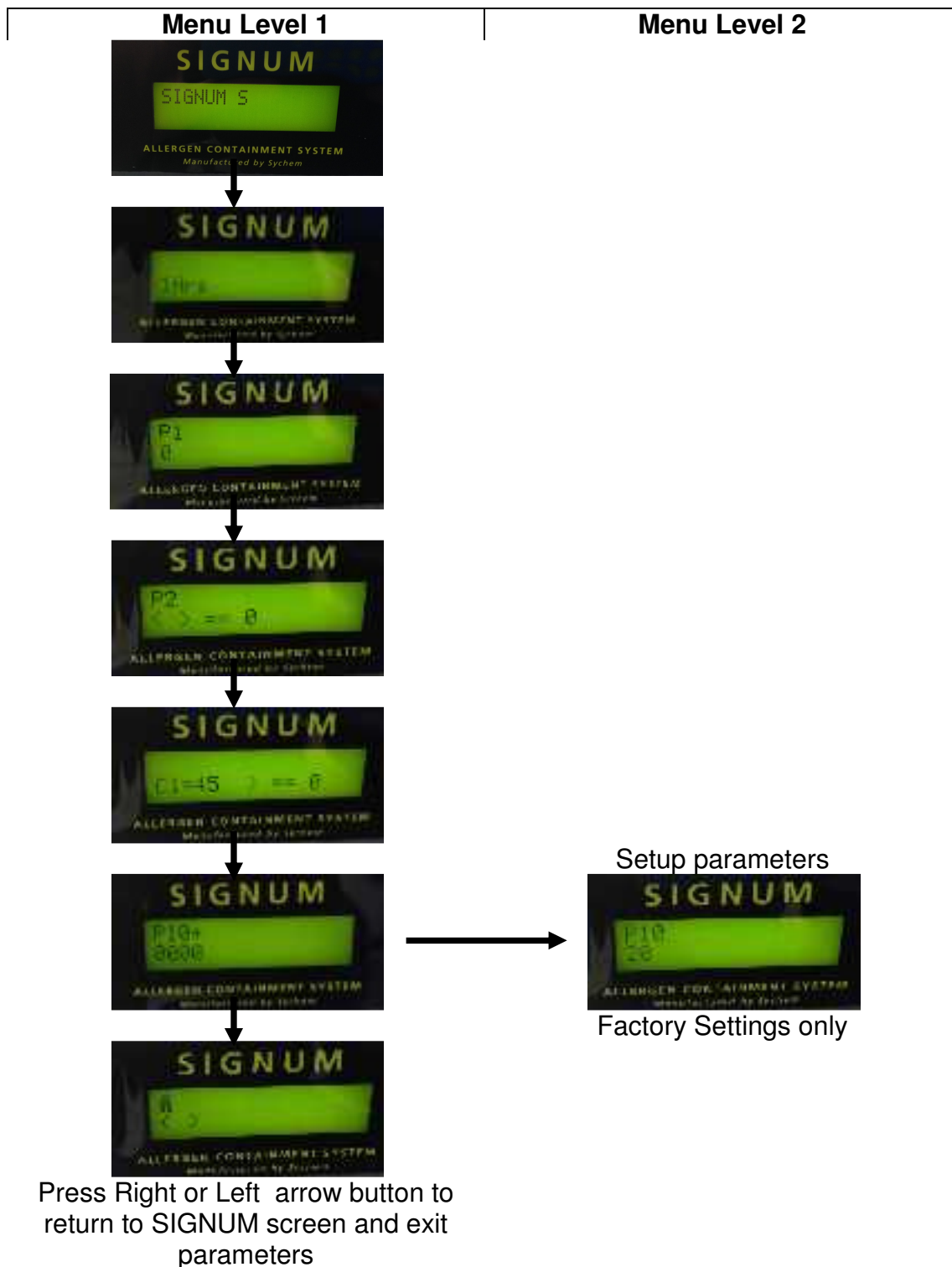
Step	Description, cont...
6	 Pull and remove the four ties.
7	 Lift the OUTSIDE plastic and push through the aperture.  Fitted bag cassette
8	Replace the Lid, switch the machine on and perform a Seal+Cut operation. Remove the bag-end.

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4 Technical Appendix

4.1 Menu System Map



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4.1.1 Information and user setup screens

To access the Information and user setup screens, press the Down or Up arrows on the Control panel.



Control Panel arrows



Typical Display

Text display	Meaning
xHrs	Hours run meter x = number of hours run
P1 0	Weight system ON/OFF 0 = OFF 1 = ON Note: The weight system is a future addition. This feature is not available on Ver 1.0
P2 <> == 0	Refers to parameters P2 to P9 (Operator access parameters). These are for future use and are not available on Ver1.0
C1 = 15 > == 0	Number of bags sealed Press the right arrow button to reset to zero
P10+ 0000	Access Setup parameters P10 onwards Use the right arrow key to start entering the access PIN code. These parameters are for factory setup only.
 < >	To leave the parameter setup screen, press either the left or right buttons. Alternatively, wait 20 seconds.

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4.2 Faults and Warnings

Code	Fault Message	Light Colour	Fault Description
!!-E1-!!	E-Stop	Red	Emergency stop button pressed. This is a future fitted device and is not currently fitted
!!-E2-!!	Motor stall on open/Close	Red	The Sealing bar movement has been stopped. Which may indicate that too much bedding has been poured into the bag sealer. In this case, simply pull the filled bag forward a little, out of the plastic body, until the filled level drops enough to allow the bars to close. Operate the sealer again. 
!!-E3-!!	Position sensor failure	Red	1) If this fault follows an !!-E2-!! Fault, then this indicates a blockage on closing the heat bars. Carry out the action listed for the !!-E2-!! Fault. 2) If this fault occurs on applying power to the machine, then the machine is reporting that both the Open and Close sensors are operated. This scenario should not be possible and indicates a failure of the electronics.
!!-E4-!!	No heat demand (During sequence, the Seal function is active, but the temperature board reports it is at temperature all the time)	Red	The fault only occurs if Parameter P19 = 0. The fault indicates that the control system has tried to heat the seal elements, but the temperature feedback has not indicated that it has reached the target temperature. Ensure Parameter P12 is not set too low (should be greater than 8 seconds).
!!-E5-!!	Fault on Opening	Red	The Sealing bar opening movement has been stopped. This fault occurs after !!-E2-!! And indicates the fault is specific to the opening movement. This can also indicate a position sensor fault.

If in doubt, switch the machine off, wait 20 seconds, then turn it back on. This will force a complete reset and may clear the fault.

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5 USER MAINTENANCE INSTRUCTIONS

5.1 Maintenance Schedule

The following schedule describes the maintenance schedule

Task	Procedure	Monthly	Annually
Clean	Clean the Lid, inside and out Clean the top of the mechanism, with the Lid removed	X	
PAT Test	It is recommended that the equipment and cordset are PAT tested		X

Note: All moving parts are 'sealed for life' and do not need any additional lubrication.

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Whilst every effort has been made to ensure that all the information contained in this document is correct at the time of publication, due to our policy of Continuous product improvement, the company reserves its right to change any information contained herein without notice.

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